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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/066,892 02/04/2002 Timothy A. Sullivan 25091A 4887 22889 7590 11/04/2004 EXAMINER **OWENS CORNING** HOFFMANN, JOHN M 2790 COLUMBUS ROAD GRANVILLE, OH 43023 **ART UNIT** PAPER NUMBER 1731

DATE MAILED: 11/04/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	W
	10/066,892	SULLIVAN ET AL.	
	Examiner	Art Unit	
	John Hoffmann	1731	
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet w	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, and if NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by some Any reply received by the Office later than three months after the meanned patent term adjustment. See 37 CFR 1.704(b).	JIN. R 1.136(a). In no event, however, may a ren. a reply within the statutory minimum of thirderiod will apply and will expire SIX (6) MON	eply be timely filed by (30) days will be considered timely. THS from the mailing date of this communica	ation.
Status			
1) Responsive to communication(s) filed on 0	7 October 2004		
A \ \ \ 1 =	This action is non-final.		
3) Since this application is in condition for allo	Wance except for formal matter	are prococution as to the	
closed in accordance with the practice und	er Ex parte Quavle 1935 C.D.	11 453 OC 242	SIS
isposition of Claims	1	. 11, 400 O.G. 213.	
4) Claim(s) 1-24 is/are pending in the applicat			
4a) Of the above claim(s)	ion.		
4a) Of the above claim(s) is/are without 5) ☐ Claim(s) is/are allowed.	drawn from consideration.		
6)⊠ Claim(s) <u>1-24</u> is/are rejected.			
7) Claim(s) 124 is/are objected.			,
	al/a		
8) Claim(s) are subject to restriction and	d/or election requirement.		
oplication Papers			
9) The specification is objected to by the Exami	iner.		
10) The drawing(s) filed on <u>7 october 2004</u> is/are	e: a)□ accepted or b)⊠ obje	cted to by the Evenines	
Applicant may not request that any objection to the	he drawing(s) be held in abeyance	e See 37 CED 1 85(a)	
Replacement drawing sheet(s) including the corre	ection is required if the drawing/s	) is chiested to See 27 OFD 4 4944	<b>( _ 1 )</b>
11) The oath or declaration is objected to by the	Examiner. Note the attached (	Office Action or form PTO-152	(a).
iority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign	In priority under 25 LLC O. S.4	40() ()	
a) ☐ All b) ☐ Some * c) ☐ None of:	gn priority under 35 U.S.C. § 1	19(a)-(d) or (f).	
<del></del>	nts have been received		
1. Certified copies of the priority docume	nto have been received.	digation At	
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U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date \_\_\_\_\_.

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date.

6) Other: \_\_\_\_.

5) Notice of Informal Patent Application (PTO-152)

Art Unit: 1731

### **DETAILED ACTION**

## Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-24 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The terms "tip section" and "section spacing" are indefinite as to their meanings. First, the terms are not defined in the specification. One of ordinary skill looking at the disclosure as a whole would not be able to tell what is meant by the terms. Whereas it is clear that the terms cover the specific embodiments of the specification, it is impossible to tell if the claims are limited to the specific sections and spacings of the embodiments. It is noted that figure 4 has six spacings (88), but the upper 88's point to supports, whereas the lower 88's point to part of the tip plate. It is unclear if the term "section spacing" can encompass both structures. The biggest confusion for examiner: can the tip sections and the section spacings be arbitrary sections/spacings?

Most specifically: as seen in the prior art rejection below, Examiner takes the position that the prior art has tip sections and section spacing, that reads on the claims below. Although the prior art is different from Applicant's invention, Examiner has no way of telling whether Applicant will be of the position that the prior art does not read on the claims. Similarly, the public has no way of knowing whether a particular bushing

Art Unit: 1731

reads on applicant's claim, because the public has no way of knowing whether a given portion of a tip plate is a "tip section" or if a given spacing is a "section spacing".

MOST importantly, Glaser US Pat 3334981 indicates that a "tip section" is the same thing as a feeder floor (col. 4, lines 12-13 and 22). But Applicant's usage is not consistent with this the already established definition of Glaser. Where applicant acts as his or her own lexicographer to specifically define a term of a claim contrary to its ordinary meaning, the written description must clearly redefine the claim term and set forth the uncommon definition so as to put one reasonably skilled in the art on notice that the applicant intended to so redefine that claim term. *Process Control Corp. v. HydReclaim Corp.*, 190 F.3d 1350, 1357, 52 USPQ2d 1029, 1033 (Fed. Cir. 1999). The term is indefinite because the specification does not clearly redefine the term.

Claim 14: there is confusing antecedent basis for "the support" of line 2.

# Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Art Unit: 1731

Claims 1-24 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over O'Brien- Bernini 5312470 (hereinafter "OBB").

Looking at figures 1 and 2 of OBB: the flat structure (that tips 14 are built into) is the tip plate. Figure 2 shows six tips, the section of the 2<sup>nd</sup> and 3<sup>rd</sup> tips is a first tip section. The section of the 4<sup>th</sup> and 5<sup>th</sup> tips is a second tip section, and the spacing between these two sections is the "section spacing". The middle support (22) is the "lateral support". The rest of the limitations are clearly present when looking at OBB as a whole.

Alternatively, if the sections and spacing are not tip sections or section spacing, it would have been obvious that they are tip sections and a section spacing because: 1) the is no definition for "tip section" or "section spacing" (either in the specification or prior art) which exclude the OBB features, 2) they are essentially the same as disclosed by applicant, and 3) the only difference between Applicant's features and OBB would be their dimensions.

Claim 2: See col. 2, lines 14-17.

Claims 3-4: see col. 2, lines 46-50.

Claim 5: see figure2.

Claim 6: Applicant's figure 5 has nipples (98).

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of

Art Unit: 1731

the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 7 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Higginbotham 3841853.

Figures 1-2 of Higginbotham shows the bushing body, throat and the elongated tip plate. 40 is support extending longitudinally, and 42 is the lateral support. The two supports delimit the bushing plate into four tip sections.

If Higginbotham does not explicitly show all the above features, it would have been obvious to one of ordinary skill to provide such, because Higginbotham is essentially the same as Applicant's invention.

Claims 8 and 11-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Higginbotham in view of Glaser 3334981.

Higginbotham does not disclose much structure around the supports. Glaser teaches to use a ceramic material to not modify the flow of electricity (col. 5, lines 26-

Art Unit: 1731

31). IT would have been obvious to use a ceramic material between the supports and the tip plate in Higginbotham, so as to no modify the flow of electricity. As to being thermally insulated: it is deemed that the ceramic results in a degree of thermal insulation. IT is noted that even applicant's ceramic material has at least some thermal conduction. The degree of insulation is not claimed.

Claim 11: It would have been obvious to use hollow supports in the Higginbotham process, so as to transfer excess heat as taught by Glasser at col. 5, lines 50-58.

Claim 12: Features 84 and 85 of Glaser are deemed to be nipples in as much as Applicant's nipples 98 of figure 5.

Claim 13 is clearly met.

Claim 14: Looking to figure 3 of Glaser, 84 and 85 would be the hollow members and 80 would be the fluid conduit between the hollow members.

Claims 8 -15 are rejected under 35 U.S.C. 103(a) as being unpatentable over O'Brien-Bernini 5312470 (OBB) in view of Higginbotham 3841853.

OBB discloses the invention as indicated above, but not the longitudinal support. Higginbotham teaches to have both lengthwise and crosswise supports to reduce sag (col. 4, lines 24-37) – just like applicant has. It would have been obvious to include further supports lengthwise to support the OBB bushing as taught by Higinbotham to reduce sag.

Art Unit: 1731

Claim 15: for the length-wise support(s), it would have been obvious to have the length wise supports substantially similar to the crosswise supports. The supports are U-shaped because they have a shape like a U – they have a bottom and two-sides. It is noted that applicant's U-shape does not have a curved bottom – as U's do. The legs would correspond to manifold 24 as shown on figure 4 of OBB. The conduit clearly extends downward and across the support (i.e. itself).

Claims 16-17 and 20-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Slonaker 4055406 in view of Higginbotham 3841853.

Slonaker discloses the invention except for the lateral support. See for example figures 4-7 of Slonaker. Higginbotham teaches to have crosswise and lengthwise supports (col. 4, lines 22-36) so as to reduce sag. It would have been obvious to include both sort of supports in the Slonaker invention, so as to reduce sag.

Claim17: See col. 4, lines 5-9

Claim 20: it would have been obvious to have all the conduits to be supplied from the same fluid system (such as a municipal water supply) because it is simpler than having 2 or more water supplies. Alternatively, communications is an action, not structure – the claim language does not require any particular relationship.

Claim 21, the supports have nipples in as much as Applicant's 98's are nipples.

Claim 22 would inherently have to be met.

Claim 23: it would have been obvious to have the lateral support substantially as shown figure 4: 73-73 would be the two hollow members and 68 would be conduit. It is

Art Unit: 1731

clear that the supporting structure would be the horizontal conduit – and then there would have to be additional structure on either end: one to bring the coolant up to the conduit, and other to return it back down.

Claim 24: IN a slightly different interpretation 73-68-73 would constitute an upside-down U shape. (Alternatively it has a shape of a U in that it has two vertical portions and a horizontal portion connecting the two vertical portions) The claim does not specify in what way the it is shaped like a U. Each of 73 would be a leg. The hollow members would be whatever tube is used to supply the fluid to one 73. As to the other 73 – it would have been obvious to use another tube to remove the fluid from the other 73 – so that it doesn't go onto the floor and get people's shoes wet.

Claims 18-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Slonaker 4055406 in view of Higginbotham 3841853 as applied to claims 16 and 20 and further in view of OBB (US patent 5312470).

Claims 18-19 It would have been obvious to use the OBB Zirconia coating rather than the ceramic rod – for the advantages that OBB discloses (See other rejections regarding OBB)

Art Unit: 1731

### **Drawings**

The new drawing filed 7 October 2004 is objected to under 35 U.S.C. 132 because it introduces new matter into the disclosure. 35 U.S.C. 132 states that no amendment shall introduce new matter into the disclosure of the invention. The added material which is not supported by the original disclosure is as follows: The change to where 88 points too. This appear to change the scope of the invention. It apparently changes the scope of "section spacing" to be narrower than what it was as filed, there does not appear any basis for this more narrow scope of "section spacing".

Applicant is required to cancel the new matter in the reply to this Office Action.

### Response to Arguments

Applicant's arguments filed 7 October 2004 have been fully considered but they are not persuasive.

It is argued that "tip section" and "section spacing" are defined in the specification. This is not convincing because the sections that the arguments point to only serve to describe some embodiments – there is no definition.

The specification must clearly set forth the definition explicitly and with reasonable clarity, deliberateness and precision. *Teleflex Inc. v. Ficosa North America Corp.*, 63 USPQ2d 1374, 1381 (fed. Cir. 2002), *Rexnord Corp. v. Laitram Corp.* 60 USPQ2d 1851, 1854 (fed. Cir. 2001) and MPEP 2111.01.

Art Unit: 1731

The sections that applicant points to fail to meet the Teleflex requirement that the definition be set forth with clarity, deliberateness and precision. Most importantly, it is NOT "explicitly" set forth.

It is also argued that figure 4 has draftperson's errors. There is no evidence to support this assertion. The proper test is whether one of ordinary skill would recognize the error and how to correct it. Examiner can see no reason as to one would recognize that there is an error.

An amendment to correct an obvious error does not constitute new matter where one skilled in the art would not only recognize the existence of error in the specification, but also the appropriate correction. In re Oda, 443 F.2d 1200, 170 USPQ 268 (CCPA 1971).

To overcome the rejection of claim 14, it is argued that claim 2 was amended. This is not convinicing because claim 14 does not depend from claim 2.

It is also argued that OBB does not teach the bushing as claimed. This argument is not convincing; it fails to point out any error in the rejection. The rejection points out how the bushing and all the claimed limitations are disclosed – but there is no indication of any alledged error in the rejection – beyond the gainsay of the conclusion thereof.

As to the alternative rejection – the arguments are not convincing, because they rely on aledged definitions that Examiner does not agree with. However in as much as Applicant argues that the features are defined by the disclosed embodiments: OBB does not teach applicant's specific embodiment(s).

As to the other prior art rejections it is also argued that the prior art does not disclose the invention. However there is no specific indication as to what specifically is

**Art Unit: 1731** 

missing, and what specific error the Office made in determining the invention is obvious and/or anticipated. Therefore there is no basis to withdraw the present rejections.

#### Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John Hoffmann whose telephone number is (571) 272 1191. The examiner can normally be reached on Monday through Friday, 7:00- 3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steve Griffin can be reached on 571-272-1189. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

John Hoffmann Primary Examiner

Art Unit 1731

jmh